AERO-MOTIVE COMPANY



A Woodhead Industries, Inc. Subsidiary

IMPORTANT SAFETY INSTRUCTIONS

Please read this manual carefully and follow its instructions. Improper use or failure to follow these instructions could result in serious injury, death or property damage. Operators should be instructed in the safe and proper use and maintenance of this product. Keep this manual for future reference.

The following safety precautions call attention to potentially dangerous conditions.

A

DANGER: Immediate hazards which WILL result in severe personal injury or death.

A

WARNING: Hazards or unsafe practices which COULD result in severe personal injury or death.

A

CAUTION: Hazards or unsafe practices which MAY result in *minor* personal injury or product or

property damage.

NOTE: Instruct operators in the safe, proper use and maintenance. Keep this manual for future reference.

INSTALLATION



WARNING:

Failure to read, understand or follow these instructions could lead to hazards or unsafe practices COULD result in severe personal injury or death.



WARNING:

Disconnect power before servicing.



CAUTION:

Instruct operators in the safe, proper use and maintenance of this product.

Mount slip ring by sliding the mounting hub over mounting shaft and securing it tightly with set screws. See chart below. The drive stud (customer supplied or mounted on the reel) must protrude through the hole on drive plate, allowing for a ½" minimum clearance to the first brush in line. This will allow slip ring to rotate properly. Drive stud should not exceed 3/8" diameter.

SERIES	MOUNTING HOLE DIAMETER
SR200, AG200	.875 Mounting Hub
SR300, AG300, SR400	1.500 Mounting Hub

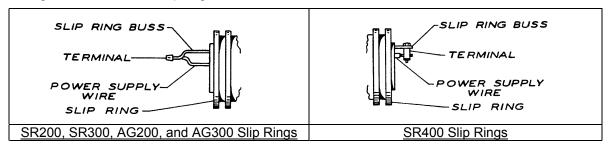
OPERATION

WIRING

To complete wiring, connect one set of wires to brushes and other corresponding set of wires through main shaft to slip ring buss--as illustrated. Always insure that each lead is connected to the corresponding brush and buss wire. Always provide slip ring with fuse protection. Chart below shows maximum lead wire size supplied or allowed with ring.

Models	Lead Wire	Models	Lead Wire	Models	Lead Wire
SR202-SR2012	#12 AWG	SR302-SR316	#10 AWG	SR402-SR404	Max #4 AWG
SR2014-SR2016	#14 AWG	SR318-SR324	#12 AWG	SR405-SR406	Max #6 AWG
SR2018-SR2028	#16 AWG	SR326-SR336	#14 AWG		

To complete wiring, connect one set of wires to brushes and other corresponding set of wires through main shaft to the slip ring buss--as illustrated.



MAINTENANCE



CAUTION:

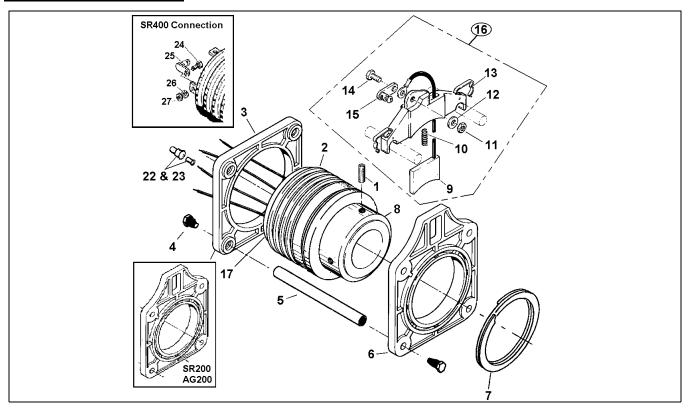
Wipe off any excess grease. Never treat ring surface with any type of lubricant cleaner. Hazards or unsafe practices MAY result in *minor* personal injury or product or property damage.

Grease may be required depending on the use and atmosphere. If required, place a light coat of nonconductive grease on riding surface of drive plate and end plate. Inspect brushes and slip rings periodically for wear and corrosion.

SERVICE

All parts illustrated are available as repair parts. During disassembly and assembly of slip rings, always be careful to install parts in their proper places as illustrated. The brush and brush holder should always be centered between the insulators on the slip ring. The last brush should be mounted 90° from drive stud, to allow for needed clearance between drive stud and brush. Be sure that brush surface makes complete contact with ring. Clamp brush holder in place securely.5

REPLACEMENT PARTS



SR200	& AG200	SERIES
Refere	ence	

Number	Part Number	Qty.	Description
1	00053P0408	2	Screw; 5/16-18 X 5/16, Set
	5980600XX	1	Sub-Assembly; SR202 (XX)=01, 204=02, 206=03, 208=04, 2010=05,2012=06, 2014=07, 2016=08, 2018=09, 2020=10, 2022=11,
8	H965100XX	1	2024=12, 2026=13, 2028=14 Sub-Assembly Silver; AG202 (XX)=02, 204=03, 206=04, 208=05, 2010=06, 2012=07, 2014=08, 2016=09, 2018=10, 2020=11, 2022=12, 2024=13, 2026=14, 2028=15.
3	5980300000	1	End Plate
4	C03430405	8	Screw; Self-Tapping, 1/4 – 20 x ¾
5	H05050xxx	1	Stud & Plate Kit (includes 4 studs and items 3, 4 & 6) XXX= SRXXX Example: SR212 is H05050212
6	5980300000	1	Drive Plate
7	C01960151	8	Ring; Retaining
8	M37730025	1	Hub
9	5851400000 6154800000	1/ring	Brush Only, Copper-Graphite (Models: SR2xx) Brush Only, Silver Tipped (Models: AG2xx)
10	00600P0002 Included w/ #9	1/ring	Spring Model SR2xx Spring, Model AG2xx
11	00160P0050	1/ring	Nut #10-24
12	5773300000	1/ring	Washer #10
13	Not Available		
14	00030P0217	1/ring	Screw #10-24x5/8
15	C70280310	1/ring	Lug terminal
16	6053700000 6155000000	1 1	Brush assembly complete for SR2xx I (Items 9-15) Brush assembly complete for AG2xx I (Items 9-15)
17	5980400000	1	End Bearing
22	00904P0001	1/ring	Splice Cap
23	00903P0001	1/ring	Insulator Cap

SR300 & AG300 SERIES

1 00011 H9651 2 H9652 3 M878	<u>umber (</u> P0019 101XX	Qty. 2	Description Screw; Set Sub-Assembly; Collector Ring SR302 (XX) =00, 304=01, 306=02,
H9651 2 H9652 3 M878		2	·
2 H9652 3 M878	101XX		Sub Assembly: Collector Ping. SP302 (XX) =00, 304=01, 306=02
H9652		1	308=03, 310=04, 312=05, 314=06, 316=07, 318=08, 320=09, 322=10, 324=11, 326=12, 328=13, 330=14, 332=15, 334=16, 336=17.
	200XX	1	Sub-Assembly; Collector Ring AG302 (XX)=22, 303=23, 304=24, 305=25, 306=26, 308=27, 310=28, 312=29, 314=30, 316=31, 318=32, 320=33, 322=34, 324=35, 326=36, 328=37, 330=38, 336=41.
4 0004	10012	1	Plate; End
4 C0343	30405	8	Screw; Self-Tapping, 1/4 - 20 x 3/4
5 H0505	50XXX	1	Stud & Plate Kit (includes 4 studs and items 3, 4 & 6) XXX= SRXXX Example: SR312 is H05050312
6 M878	10011	1	Plate; drive
7 00582	P0016	1	Ring; Retaining
8 M377	30026	1	Hub
58502	00000 1	/ring	Brush Only, Copper-Graphite (Models: SR3xx)
9 61549	00000 1	/ring	Brush Only, Silver Tipped (Models: AG3xx)
10 00600	P0002 1	/ring	Spring Model SR3xx
10 00600	P0016 1	/ring	Spring, Model AG3xx
11 00160	P0050 1	/ring	Nut #10-24
12 57733		/ring	Washer #10

13	6050600000	1/ring	Brush holder complete
14	00030P0217	1/ring	Screw #10-24x5/8
15	C70280310	1/ring	Lug terminal
16	H97620007	1/ring	Brush assembly complete for SR3xx I (Items 9-15)
16	H97620010	1/ring	Brush assembly complete for AG3xx I (Items 9-15)
17	5854900000	1	End Bearing
22	00904P0001	1/ring	Splice Cap
23	00903P0001	1/ring	Insulator Cap

SR400 SERIES

Reference

Number	Part Number	Qty.	Description
1	00011P0019	2	Screw; Set
2	H965103XX	1	Sub Assy. Collector Ring; SR402 (xx)=00, 403=01, 404=02, 405=06,
3	M87810012	1	406=07. Plate; End
		0	·
4	C03430405	8	Screw; Self-Tapping, 1/4 - 20 x ³ / ₄
5	H05050XXX	1	Stud & Plate Kit (includes 4 studs and items 3, 4 & 6) XXX= SRXXX Example: SR404 is H05050404
6	M87810011	1	Plate; drive
7	00582P0016	1	Ring; Retaining
8	M37730026	1	Hub
9	5850500000	1/ring	Brush Only, Copper-Graphite (Models: SR4xx)
10	00600P0002	1/ring	Spring Model SR3xx
11	C22430113	1/ring	Nut 1/4-20
12	00126P0050	1/ring	Washer 1/4
13	6134500000	1/ring	Brush holder
14	00030P0110	1/ring	1/4-20 X 3/4 HHCS
15	C70280311	1/ring	Lug terminal
16	H97620004	1/ring	Brush assembly complete for SR4xx I (Items 9-15)
17	5854900000	1	End Bearing
24	00030P0120	1/ring	1/4-20 X 3/8 HHCS brass
25	C70280311	1/ring	Lug
26	00101P0030	1/ring	1/4 Lockwasher
27	00152P0005	1/ring	1/4-20 Hex Nut brass

Aero-Motive Company

W A Woodhead Industries Inc. Subsidiary PO Box 2678 Kalamazoo, MI 49003-2678 (616) 337 7700 (800) 999 8559 FAX: (800) 333 6119 www.aeromotive.com

AKAPP Electro Industrie

W A Woodhead Industries Inc. Subsidiary
Nijverheidsweg 14 Box 54
NL-3771 ME Barneveld
NL-3771 AB Barneveld
Holland
(31) 34 241 4022
FAX: (31) 34 249 2384
www.akapp.com

Woodhead Connectivity LTD.

W A Woodhead Industries Inc. Subsidiary
Factory No. 9
Rassau Industrial Estate
Ebbw Vale Gwent NP3 5SD
United Kingdom
(0495) 35 0436
FAX: (0495) 35 0877
sales@wdhd.co.uk

Woodhead Asia PTE LTD.

W A Woodhead Industries Inc. Subsidiary
401 Commonwealth Drive #04-04
Haw Par Technocentre
Singapore 0314
(65) 261 6533
FAX: (65) 479 3588
sales@wasia.com.sg

Woodhead Canada LTD.

W A Woodhead Industries Inc. Subsidiary 1090 Brevik Place Mississauga Ontario L4W 3Y5 Canada (905) 624-6518 FAX: (905) 624-9151 www.woodhead.ca